Worl	k Orde	er II	592	81
Friday,	May 28,	2010	2:25:29	PM





Page 1

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

Required Date: 6/4/2010

5/28/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: 6-3-28 Tooling:

Date:

Run Start

Stop



QC:

Date: _____

SPC (Y/N):

Date:

Reject **Qty**

Reject Insp.

Sequence ID/ Work Center ID Operation Description

Set Up/ **Run Hours** **Tool ID**

Tool# Plan Code

Accept Qty

Number

Stamp

Draw Nbr

Revision Nbr

D2580 Rev D

100

DC

DOCUMENT CONTROL

Memo

0.00

0.00

Document Control

Photocopy D205-634 bluefile & type labels per PPP D205-634-041 CHG002

1-Bend as per program D2580.C on CNC Bender and Folio FT009

110

CNC Bend 1

CNC Delta 100 Bender

BENDING MACHINE - SKIDTUBES Memo

0.00

0.00

2-Cut tubes as per Dwg. D2580

W/O:			* · · ·								
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
								:			
Part No	:	PAR #:	Fault Ca	tegory:	NC	R: Yes	No DQA	٨:	Date:		
	R	esolution:	Disposit	ion:	QA	QA: N/C Closed: Date:					
NCR:			WORK OR	DER NON-CON	FORMANCI	(NCR	R)				
DATE	STEP	Description of NC	Initial	Corrective Actio Action Des		Sign &	Verific		Approval	Approval	
		Section A	Chief Eng	Chief E		Date	Section	on C	Chief Eng	QC Inspector	
						4114					
	+										
							:				
								· · · · · · · · · · · · · · · · · · ·			
`											
	,									,	

Work Order ID 59281

Friday, May 28, 2010 2:25:29 PM



Page 2

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

5/28/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Operation

Description

Date:

Tooling:

Set Up/

Run Hours

Date:

Start

Run

Accept

Qty

Required Date: 6/4/2010

QC: ____

Date:____ SPC (Y/N):

Date:

Tool # Plan

Code

Stop

Reject

Oty

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

120

Skidtubes Skidtubes

Memo

0.00

0.00

1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

4- Scribe batch number insied aft end of tube.

130

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

1 0 BE 10/05/31

W/O:			W	ORK ORDER CHANG	NGES							
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	PAR #:	Fault Cat	NCR: Yes No DQA: Date:								
	Ř	esolution:	Dispositi	on:		Date:						
NCR:			NORK OR	DER NON-CONFORMA	NCE (NCR)						
DATE	STEP	Description of NC	Corrective Action Section		Verific	ation	Approval	Approval				
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	on C	Chief Eng	QC Inspector			
						-						
3												
				•								

Work Order ID 59281

Friday, May 28, 2010 2:25:29 PM



Page 3

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date: Required Date: 6/4/2010

5/28/2010

Start Oty: 1.00

Rea'd Otv: 1.00



Cust Item ID:

Customer:

Reference:

A	pprov	ale:
	$\mathbf{p}_{\mathbf{p}_{\mathbf{t}}}$	a13.

Process Plan: Date:

OC:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start



Stop

Sequence ID/ **Work Center ID**

140

Skidtubes

Skidtubes

Operation Description

Memo

Set Up/ **Run Hours** **Tool ID**

Tool # Plan

Code

Accept Qty

Reject Qty

Reject

Insp. Number Stamp

1-Weld step D2576 as per Dwg. D2580 and QSI 004

A/R□□□ Aluminum Rod

M112860

0.00

0.00

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill

A/R□□□ Aluminum Rod

M112860

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web.Deburr

BE 10/05/31 ling 019/64", BE10/04/01

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. Deburr holes

6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr

M10/6/1

į,

	•											
W/O:			WORK ORDER CHANGES							• •		
DATE	STEP	PRO	OCEDURE CHAI	NGE	·	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No	•	PAR #:	Fault Cate				NCR: Yes No DQA: Date:					
	Reso	olution:	Disposition	າ:	QA:	N/C Clo	sed:		Date: _			
NCR:		,	WORK ORDE	R NON-CONFORM	IANCE	(NCR)					
DATE	STEP	Description of NC	Corrective Action Section				Verific	ation	Approval	Approval		
	0.2.	Section A	Initial Chief Eng	Action Description Chief Eng	l	Sign & Date	Secti		Chief Eng	QC Inspector		
· · · · · · · · · · · · · · · · · · ·						 -	_					
3												
								-				

Work Order ID 59281

Friday, May 28, 2010 2:25:29 PM



Page 4

Item ID:

D205-634-041

Accept

Setup Start



Revision ID:

Replacement Skidtube Item Name:

Cust Item ID:

Customer:

Start Date:

5/28/2010 Required Date: 6/4/2010

QC:

Start Qty: 1.00 Req'd Qty: 1.00

Reference:

Process Plan:

Date: Tooling:

Date:

Start

Stop



Approvals:

Date:_____

SPC (Y/N):

Date:

Stop

Sequence ID/ **Work Center ID**

150

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan Accept Code Qty

Reject Qty

Run

Reject Number

Insp. Stamp

160

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

Pressure Wash per QSI005 4.3

Memo

0.00

HandFinish

170

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

D \$ 10-6-1

	-											
W/O:			WO	RK ORDER CHAN	IGES				7	•		
DATE	STEP	PRO	OCEDURE CHAI	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
						, ,						
Part No	•	PAR #:	Fault Cate				NCR: Yes No DQA: Date:					
	Re	esolution:	Disposition):	QA:	N/C Cld	sed:		Date: _			
NCR:			WORK ORDE	R NON-CONFORM	MANCE	(NCR)					
DATE STEP		Description of NC			ection B		Verific	ation	Approval	Approval		
DAIL	O.L.	STEP Section A	Initial Chief Eng	Action Description Chief Eng	n	Sign & Date	Section C		Chief Eng	QC Inspector		
						, <u>., .,</u>						
i					-							
				,								
,												

Work Order ID 59281

Friday, May 28, 2010 2:25:29 PM



Page 5

Item ID:

D205-634-041

QC:

Accept

Setup Start



Revision ID:

Item Name: Replacement Skidtube

Start Date: 5/28/2010 Required Date: 6/4/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Start

Stop

Stop



Sequence ID/

Date:

SPC (Y/N):

Set Up/

Run Hours

Tool ID

Tool # Plan Code

Reject Accept **Qty**

Qty

Run

Reject Insp. Number Stamp

Work Center ID 180

Powdercoat

Powder Coating

Operation **Description**

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

11114207

0.00

=) M 10/06/01

7:30 An START TIME: 32000 OVEN TEMPERATURE: FINISH TIME: 1:00,00

190

QC

QC3- Inspect Part Finish

0.00

Quality Control

Memo

Memo

0.00

1 Bl 10.6-2

W/O:			W	ORK ORDER CHANG	GES			1	•
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									-
Davi Na									
Part No					NCR: Yes No DQA: Date: QA: N/C Closed: Date:				
NCR:				ER NON-CONFORM					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	stion B Sign & Date	Verification Section C		Approval Chief Eng	Approval QC Inspector
. e e									
								!	

Work Order ID 59281 Friday, May 28, 2010 2:25:29 PM



Page 6

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

5/28/2010

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

A	nı	٦r	ov	a	S:

Process Plan: _____

Date:

Date: Tooling:

0.00

SPC (Y/N):

Date:

Date:

Run

Stop

Start



Sequence ID/

Work Center ID

Required Date: 6/4/2010

200



HandFinish

Hand Finishing

Operation Description

Set Up/

Run Hours 0.00

Tool ID

Tool # Plan

Accept Code Qty

Reject **Qty**

Reject Number

Insp. Stamp

Memo

1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates A/R \(\bigcup \Bigcup \) Sikaflex-291 \(\bigcup \langle \bigcup \langle \bigcup \Bigcu

Sikaflex expire date:

2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580

3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with

Sikaflex. Clean excess adhesive

A/R □ □□ Sikaflex-291 □ ##3:
Sikaflex expire date:

5-Wing Walk as per Dwg D2580 and QSI 005 4.4

Batch: 114460

D Bf 10-6-2.

W/O:	.]		W	ORK ORDER CHANG	SES		-		
DATE	STEP	PR	OCEDURE CHA		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
·									
Part No		PAR #:							
	Reso	olution:	Dispositio	n:	QA: N/C Cld	sed:		Date:	
NCR:		,	WORK ORD	ER NON-CONFORM	ANCE (NCR)			
DATE	STEP	Description of NC Corrective Action			tion B	Verifica	tion	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
•									
.· 									

Work Order ID 59281 Friday, May 28, 2010 2:25:29 PM



Page 7

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

Required Date: 6/4/2010

5/28/2010

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Date:

Tool # Plan

Code

Customer:

Tool ID

Reference:

Approvals:

Process Plan: ____ Date:

Date:_____

Tooling:

Date:

Run

Accept

Qty

Start

Stop

Reject

Number

Reject

Qty



Insp.

Stamp

Sequence ID/ **Work Center ID**

210

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

0.00

0.00

0.00

SPC (Y/N):

0.00

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per OSI 024

220

Packaging

Packaging

Packaging

Memo

Memo

Identify and pack for shipping as per PPPD205-634-041

Location:

PPP Rev:

230

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

10/06/04 95 -MF 10-6-3

W/O:			, •							
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	gory:	NCR:	Yes N	No DQ	\ :	_ Date: _	
				Disposition: QA: N/C Closed: Da						
NCR:			WORK ORDI	ER NON-CONFOR	MANCE	(NCR))	· -		
DATE	STEP	Description of NC	Description of NC Section A Corrective Action Initial Action Description			Section B Ption Sign & Section B			Approval	Approval
		Section A	Chief Eng	Action Descriptio Chief Eng	'n	Date	Secti	on C	Chief Eng	QC Inspector
									:	
									•	
									!	
				•						
,•									:	
	·									

Picklist Print Friday, May 28, 20		PM									Pa
Work Order ID: 5	9281										
Parent Item:	205-634-041										
Parent Item Name:	Replacemer	nt Skidtube		 	01	8 1	S	tart Date: :	5/28/2010	Required Date: 6/4	/2010
Comments:	IPP Rev P	02.08.28□FP was QC5 in 10.02.19 per PAR09-043 06.02.28 Added paperv 07-07-09 SS Wearplate	EC verifie work EC	ed by:DD	0□KJ		\$	Start Qty:	1.00	Required Qty: 1.0	
D2580-1 205 Skidtube bent detai	i i 	Manufactured	No		110	Each	15.0000	1	1		
•			L	ocation	Lo	c Oty	Loc Code				
			L	G		9					
				57028		1				_	
				58384		1				_	
				58385 58618		1 2				_	
				58619		2				_	
				59143		2				- -	
			S	T046		6				_	
				58747		2				_	
				58748		2				-1.10/5/01	
D2576-3		M C / 1	Ma	59030	140	2	00.0000	,		40/5/31	
Step (maching detail)		Manufactured	No		140	Each	99.0000		1		
			<u>L</u>	ocation	Lo	e Oty	Loc Code				
			L	G		99				- 1	1
				46661		51			/	BE INDE	13 [

Manufactured

No

D2579

Crossbolt Spacer

 Location
 Loc Oty
 Loc Code

 LG
 224

 57052
 5

 57348
 8

 58433
 211

20 BE 10/05/31

	-			, ,									
W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAN	IGE	٠,	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
				-1					<u> </u>				
				•									
				•									
			٠.,										
Part No.		DAD #-	Foult Cata		1105								
i ait ito	·	PAR #;	Fault Categ	Fault Category: NCR: Yes No Disposition: QA: N/C Close					o DQA: Date:				
	Heso								Date:				
NCR:		V	WORK ORDE	R NON-CONFORMA	ANCE	(NCR)						
DATE	STEP	Description of NC		Corrective Action Secti	ion B		Verific	ation	Approval	Approval			
	0.21	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector			
		·											
				**	_	· ·		·					
									<i>></i>	4			
							-						
	,												
				,									

Friday, May 28, 2010 2:25:34 PM

Work Order ID: 59281

Parent Item:

D205-634-041

Parent Item Name:

Replacement Skidtube

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev:P 07-07-09

SS Wearplates & Gaskets JLM

Start Date: 5/28/2010

Start Qty: 1.00

Required Date: 6/4/2010

Required Qty: 1.00

Bf 1062

D2855

Manufactured

No

200

Each

96.0000

Cap

Locatio	<u>n</u>	Loc Oty	Loc Code
FP6		2	
	56613	2	
ST026		94	
	50513	1	
	50770	28	
	51539	12	
	53791	53	

NAS1149D0332J Purchased



Bolt

AN3-5A

Purchased

No

No

200

Each

847.0000

Location Loc Qty Loc Code 847

200

ST350

105057

847

3,923.000

2 Bil 10-6-2

Washer

AN960JD10L

Location

ST348 110985 Loc Qty 3923

3923

17.0000

50

_2 /bk 10-6-2

ALS7-1032-130

Purchased

No

200

Each

Each

Loc Code

Insert

Location

Loc Qty 17

17

Loc Code

50 bk 10-6-2

113238 **Shop Packet Print**

	•								
W/O:			W	ORK ORDER CHANG	ES				• • •
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
								-	
Part No	:	PAR #:	Fault Cat	egory:	NCR: Yes	No DQ	A:	_ Date: _	
		esolution:							
NCR:			WORK ORE	DER NON-CONFORMA	NCE (NCF	R)		· · · · · · · · · · · · · · · · · · ·	
DATE	STEP	Description of NC	4	Corrective Action Section		Verific	cation	Approval	Approval
<u>.</u>		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Secti		Chief Eng	QC Inspector
				,					
_		·							
							•		, ,,,,,,,,
			·						
	3								
								į	,
						1			

Friday, May 28, 2010 2:25:34 PM

Work Order ID: 59281

D205-634-041

Parent Item Name: Replacement Skidtube

Comments:

Parent Item:

IPP Rev:P 07-07-09

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork SS Wearplates & Gaskets

JLM

Start Date: 5/28/2010

Start Qty: 1.00

Required Date: 6/4/2010

Required Qty: 1.00

AN3C4A

Purchased

No

200

Each

929.0000

50

50

Location Loc Qty Loc Code ST350 929 114103 501 114108 300 114416 12 114523 116

AN960C10L

NAS1149C0332

Purchased

Manufactured

Manufactured

No

No

No

200

Each

0.0000

36 Bf. 10-6-2

washer

D3566-13



Gasket

NHS 1149C0332R

200

Each

114341

24.0000

Loc Oty Location

FP 53461

576821

200

Loc Code 24 24 Each 12.0000

BR 10-6-2

Gasket

Location FP015

Loc Oty 12 12

Loc Code

JBK 10-6-2

D3566-5

	•								
W/O:		WORK ORDER CHANGES						• •	
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									-
Part No		PAR #:							
-	Res	olution:	Disposition):	_ QA: N/C Cld	osed:		Date: _	
NCR:			WORK ORDE	ER NON-CONFORMA	NCE (NCR)			
DATE	STEP	Description of NC	Initial	Corrective Action Section		Verific		Approval	Approval
·		Section A	Chief Eng	Action Description Chief Eng	Sign & Date	Secti	on C	Chief Eng	QC Inspector
				·					
•									1

Friday, May 28, 2010 2:25:35 PM

Work Order ID: 59281

D205-634-041



Parent Item Name: Replacement Skidtube

Comments:

Parent Item:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

No

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

IPP Rev.P 07-07-09 SS Wearnlates & Gaskets

Manufactured

Manufactured

Start Date: 5/28/2010

Required Date: 6/4/2010

Start Qty: 1.00

Required Qty: 1.00

IFF KCV.F	07-07-09 33 Wearplat	es & Gas	skets JLIVI					
D3566-1	Manufactured	No		200	Each	23.0000	2	2
			Location	<u>Lo</u>	c Qty	Loc Code		
			FP015		23			
			57715		2			
			58182 🏑		21			2 106-2
D3564-11	Manufactured	No	•	200	Each	11.0000	1	Y * /

Wearshoe

D3564-13

D3564-9

Location	Loc C	<u>Oty</u> '	Loc Code
FP019	/	11	
59021		11	
	200	Each	18.0000

Each

11.0000

_bf 10-6-2

Wearshoe

Location Loc Oty Loc Code FP17 18 57684 57922 14 Manufactured No 200 Each 13.0000

13/10-6-2

Wearshoe

Location Loc Qty Loc Code FP 55334 FP019 12 57958 12

_____BL 10-6-2

W/O:			14/0	DV ODDED CHANC					
DATE	STEP	PR	OCEDURE CHAN	RK ORDER CHANG	By Date Qty Chief Eng /				
w				:				Prod Mgr	QC Inspector
-									·
Part No	•	PAR #:	Fault Categ	ory:	_ NCR: Yes	No DQA	:	_ Date:	
	Res	olution:	Disposition	:	_ QA: N/C CI	osed:		Date:	
NCR:				R NON-CONFORMA					
DATE	STEP	Description of NC	<u> </u>	Corrective Action Section		Verifica	ition	Approval	Approval
	O.E.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section		Chief Eng	QC Inspector
						_			
									:
						•			
		,							

Picklist Print

Friday, May 28, 2010 2:25:35 PM

Page 5

Work Order ID: 59281

D205-634-041



Parent Item Name:

Replacement Skidtube

Comments:

Parent Item:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork

SS Wearplates & Gaskets IPP Rev:P 07-07-09

Manufactured

Manufactured

No

No

FP

Start Date: 5/28/2010

Required Date: 6/4/2010

Start Qty: 1.00

Required Oty: 1.00

D3564-5

Manufactured No 200

Each

20.0000

Wearshoe

Locatio	<u>n</u>	Lo	c Oty	Loc Code
FG			1	
	34806		1	
FP19			19	
	57525 58709.		1	
	58709		18	
		200	Each	263.0000

D2594-3



O-Ring, 205 Skidtube

<u>_ocatio</u>	<u>on</u>	<u>Lo</u>	c Oty	Loc Code
FG			1	
	34806		1	
P19			19	
	57525 58709.		1	
	58709		18	
		200	Each	263.0000



16

<u>Lo</u> FP

D2594-1

Plug, 205 Skidtube

Loc Code
438.0000

Location Loc Oty Loc Code 302 42807 112

55002 71 57826 119 FP14 136 58434 136

15 Bl 10-6-2

10 Bl 10-6-2

W/O:			W	ORK ORDER CHANG	ES					, .
DATE	STEP	PR	OCEDURE CH	ANGE	Ву	,	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Y	es N	o DQ	\ :	_ Date: _	
	Res	solution:	Disposition	on:	_ QA: N/C	Clos	sed:		Date: _	
NCR:			WORK ORE	ER NON-CONFORMA	ANCE (N	CR)				
DATE	STEP	Description of NC	Initial	Corrective Action Section		ın &	Verific		Approval	Approval
		Section A	Chief Eng	Action Description Chief Eng		ate	Section	on C	Chief Eng	QC Inspector
								·		
٠,	1									
	į.									
	<u> </u>				ľ					



DESIG	##	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
CHEC	KED.	APPROVED	DRAWING NO. REV. D
			D2580 SHEET 1 OF 3
DATE			TITLE SCALE
07.0	02.27		205 SKIDTUBE ASSEMBLY NTS
Α		96.09.16	NEW ISSUE
В		96.12.02	AS MANUFACTURED
С		98.08.26	REDRAWN, INCLUDED DEO 9094/9097
D		07.02.27	CHANGE TO SS WEARPLATES AND

GASKETS, INCLUDE DEO 9124/9183



QTY	QTY	Part Number	Description	
-041	-045			
X		D2580-041	SKIDTUBE ASSEMBLY	
	X	D2580-045	SKIDTUBE ASSEMBLY	
1	1	D2500-1-190	EXTRUSION	
1	1	D2576-3	STEP	
20	24	D2579	CROSS BOLT SPACER	
16	16	D2594-1	PLUG	
16	16	D2594-3	O-RING	
1	1	D2596	205 WEB	
1	1	D2855	AFT CAP	
1	1	D3564-5	WEARSHOE	
1	1	D3564-9	WEARSHOE	
1	1	D3564-11	WEARSHOE	
1	1	D3564-13	WEARSHOE	
2	2	D3566-1	GASKET	
1	1	D3566-5	GASKET	
1	1	D3566-13	GASKET	
		•		
50	50	ALS7-1032-130	INSERT	
		or AKS7-1032-130		
		or AKS4-1032-130		
		or AELS-1032-130		
50	50	AN3C4A	BOLT	
2	2	AN3-5A	BOLT	
50	50	AN960C10L	WASHER	
2	2	AN960JD10L	WASHER	

SHOP COFY
RETURN TO
ENGINEERING
INCONTROLLED COPT
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 5925/

BS 10-5-28

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 2) ALL DIMENSIONS ARE IN INCHES
- 3) INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP.
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- 5) USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- 6) WELDING TO BE DONE PER DART QSI 004.
- 7) FINISH:

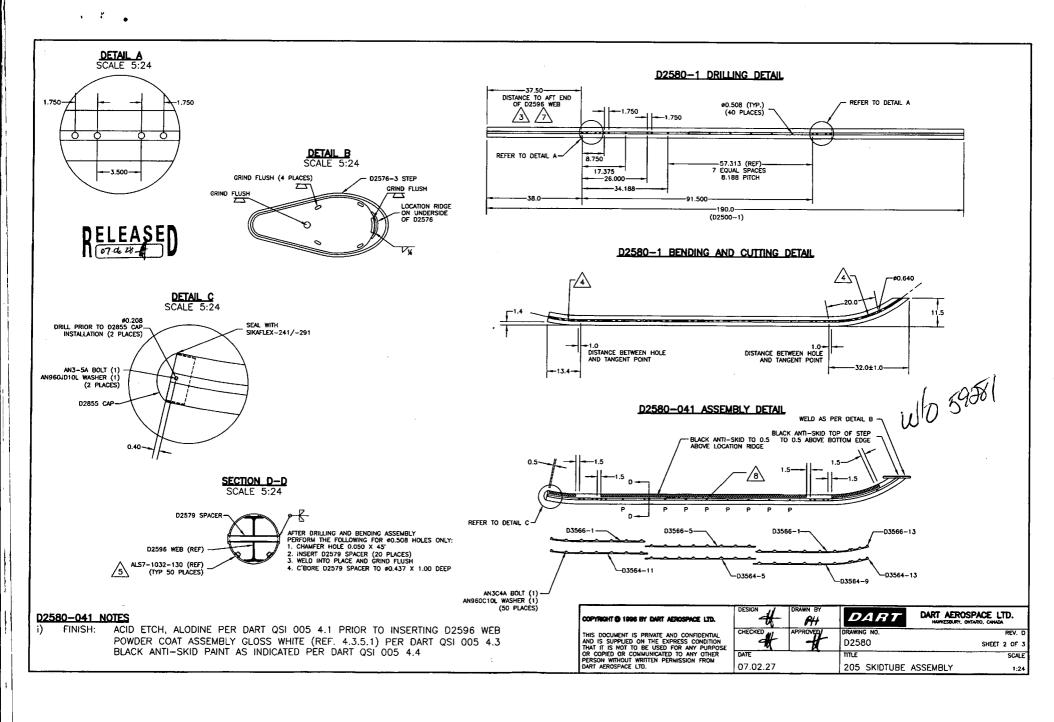
SEE NOTES ON PAGE 2 FOR D2580-041 AND PAGE 3 FOR D2580-045

8) INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

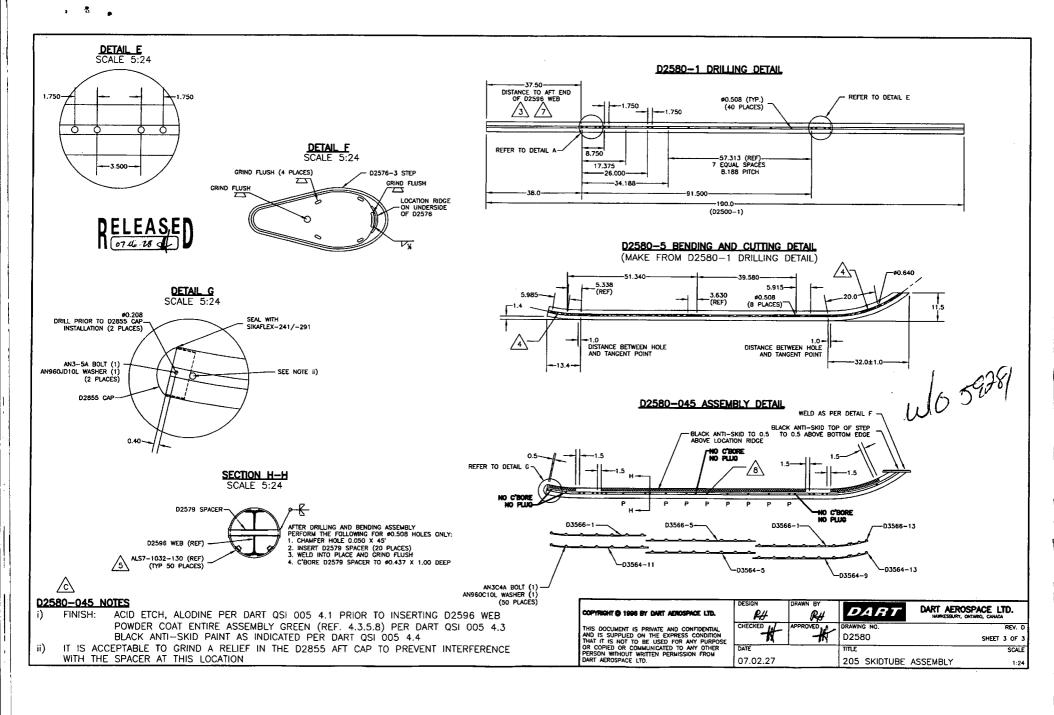
Copyright © 1996 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

W/O:			W	ORK ORDER CHANG	ES			**
DATE	STEP	PRO	PROCEDURE CHANGE			Date C	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Cate	egory:	NCR: Yes	No DQA: _	Date: _	
Resolution:								
NCR:		1	WORK ORD	ER NON-CONFORMA	NCE (NCR	1)		
DATE STEP		Description of NC			on B	Verificati	on Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
			,					



W/O:			WC	RK ORDER CHAN	GES				•	4 .
DATE	STEP	PRO	PROCEDURE CHANGE			Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
									r too wgi	
						:				
									1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Part No	•	PAR #:	Fault Cate	gory:	NCR:	Yes N	lo DQA	۸:	_ Date: _	
Resolution:										
NCR:		,	WORK ORDI	ER NON-CONFORM	MANCE (NCR)				
DATE	STEP	Description of NC	Corrective Action		ection B	Veritication			Approval	Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section		Chief Eng	QC Inspector
					iter deline					
									,	
									i	
			1				i			



W/O:			W	ORK ORDER CHANG	ES					. # .
DATE	STEP	PROCEDURE CHANGE			E	Зу	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
										
Part No:		PAR #:	Fault Cate	gory:	_ NCR:	Yes I	No DQA		_ Date: _	
Resolution:			Disposition: Q			QA: N/C Closed: Date:				
NCR:			WORK ORD	ER NON-CONFORM	ANCE (NCR		· .		3
DATE	DATE STEP Description of NC		Corrective Action Section B			W		ation	Approval	Approval
DAIL 31		Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section C		Chief Eng	QC Inspector
	•					•				
	Į									
1							2	•		
				15						

NO. 232

AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclan	Elliott
Job number: 58508	
Part number: D 205	PSH 0A1
Description: 205 4	use
Welding Process: Tig[✓]	Mig[]
Base materiel: Alumi	
Current: AC[\(\sqrt{DC} \)]	
TES	ST REQUIREMENTS AND RESULTS
Visual:	pass[] fail[]

UNACCEPTABLE

Cracks:	pass[] fail[]
Undercut:	pass[] fail[]
Pin holes:	pass[/ fail[]
Overlap (cold lap)	pass[// fail[]
Porosity (surface):	pass[/]/ fail[]
Coloration:	pass[fail[]

Qualifier Sar June of Test Coupon 10.05.18

Welder Danlay State of Test Coupon 10.05.18

The above named individual is qualified in accordance with AWS D17.1.2001 to weld